

ABSTRACT OF THE INVENTION

An above-ground sprinkler may have a head that rotates about an angle determined by the relative angles between a pair of arc adjustment rings. Rotation of the head may be driven by a drive mechanism with a rotor rotationally driven by fluid flowing to the head. The drive mechanism may have a valve disposable in two positions to control flow to the rotor to determine the direction in which the rotor rotates. A reduction gear drive may transmit torque from the rotor to the head to cause the head to rotate. The head may have a cover with an outlet aperture and a flow control member that rotates within the cover to dispose any of a plurality of nozzles in alignment with the outlet aperture. A deflection screw or a slider with a plurality of deflectors may be used to provide variable deflection of water sprayed from the outlet aperture.

S:\ALLCLIENTS\3146 Orbit Irrigation\3146.2.34\3146.2.34.draft rev 3.doc